

UNITED STATES DEPARTMENT OF COMMERCE

Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS

Washington, D.C. 20231

FIRST NAMED INVENTOR ATTORNEY DOCKET NO. APPLICATION NO. FILING DATE 09/073.494 05/06/98 PAN Р 2915.1US(96-**EXAMINER** MM42/0923 JOSEPH A WALKOWSKI VU.H TRASK BRITT & ROSSA ART UNIT PAPER NUMBER PO BOX 2550 SALT LAKE CITY UT 84110 2811 DATE MAILED: 09/23/99

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Application No. 09/073,494

Applicant(s)

PAN ET AL.

Office Action Summary

Examiner

HUNG K. VU

Group Art Unit 2811



X Responsive to communication(s) filed on May 6, 1998	
☐ This action is FINAL .	·
☐ Since this application is in condition for allowance except for in accordance with the practice under <i>Ex parte Quayle</i> , 1939	
A shortened statutory period for response to this action is set to is longer, from the mailing date of this communication. Failure application to become abandoned. (35 U.S.C. § 133). Extension 37 CFR 1.136(a).	to respond within the period for response will cause the
Disposition of Claims	
	is/are pending in the application.
Of the above, claim(s)	is/are withdrawn from consideration.
☐ Claim(s)	is/are allowed.
	is/are rejected.
☐ Claim(s)	is/are objected to.
☐ Claims	are subject to restriction or election requirement.
Application Papers See the attached Notice of Draftsperson's Patent Drawing The drawing(s) filed on	is approved disapproved. under 35 U.S.C. § 119(a)-(d). f the priority documents have been mber) International Bureau (PCT Rule 17.2(a)).
Attachment(s) ☐ Notice of References Cited, PTO-892 ☒ Information Disclosure Statement(s), PTO-1449, Paper N ☐ Interview Summary, PTO-413 ☒ Notice of Draftsperson's Patent Drawing Review, PTO-94 ☐ Notice of Informal Patent Application, PTO-152	48
SEE OFFICE ACTION ON THE FOLLOWING PAGES	

Application/Control Number: 09/073,494

Art Unit: 2811

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 25 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 25, line 6, "a sufficiently low temperature" is uncleared as to whether how low is low?

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

Claims 23-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Segawa et al. (PN 5,428,244).

Page 3

Application/Control Number: 09/073,494

Art Unit: 2811

Segawa et al. discloses a gate stack on a dielectric layered semiconductor substrate (1) comprising,

a polysilicon layer (3) disposed over the dielectric layered semiconductor substrate;

a metallic silicide (4) disposed over the polysilicon layer;

a dielectric cap (7) on the metallic film;

wherein the metallic silicide is substantially devoid of silicon clusters;

wherein the dielectric layer is substantially devoid of pitting. Note Figures 12 of Segawa et al..

It is noted that in the claims 23-25, and 27-28, the terms "non-annealed" and "annealed" are method recitations in a device claimed, and they are non-limiting, because only the final product is relevant, not the method of making. A product by process claim is directed to the product per se, no matter how actually made. See In re Fessman, 180 USPQ 324, 326 (CCPA 1974); In re Marosi et al, 218 USPQ 289, 292 (Fed. Cir. 1983); and particularly In re Thorpe, 227 USPQ 964, 966 (Fed. Cir. 1985), all of which make it clear that it is the patentability of the final structure of the product "gleaned" from the process steps, which must be determined in a "process by product" claim, and not the patentability of the process. See also MPEP 2113.

Moreover, an old or obvious product produced by a new method is not a patentable product, whether claimed in "product by process" claims or not.

Application/Control Number: 09/073,494

Art Unit: 2811

3. Claims 23-28 are rejected under 35 U.S.C. 102(e) as being anticipated by Tung (PN 5,728,625).

Tung discloses a gate stack on a dielectric layered semiconductor substrate (302) comprising, a polysilicon layer (304) disposed over the dielectric layered semiconductor substrate; a metallic silicide (305) disposed over the polysilicon layer; a dielectric cap (307) on the metallic film; wherein the metallic silicide is substantially devoid of silicon clusters; wherein the dielectric layer is substantially devoid of pitting. Note Figures 3A-4D of Tung.

It is noted that in the claims 23-25, and 27-28, the terms "non-annealed" and "annealed" are method recitations in a device claimed, and they are non-limiting, because only the final product is relevant, not the method of making. A product by process claim is directed to the product per se, no matter how actually made. See In re Fessman, 180 USPQ 324, 326 (CCPA 1974); In re Marosi et al, 218 USPQ 289, 292 (Fed. Cir. 1983); and particularly In re Thorpe, 227 USPQ 964, 966 (Fed. Cir. 1985), all of which make it clear that it is the patentability of the final structure of the product "gleaned" from the process steps, which must be determined in a "process by product" claim, and not the patentability of the process. See also MPEP 2113.

Moreover, an old or obvious product produced by a new method is not a patentable product, whether claimed in "product by process" claims or not.

Application/Control Number: 09/073,494

application control runner. 657675, 15

Art Unit: 2811

4. Papers related to this application may be submitted to Technology Center (TC) 2800 by

facsimile transmission. Papers should be faxed to TC 2800 via the TC 2800 Fax center located in

Crystal Plaza 4, room 4-C23. The faxing of such papers must conform with the notice published

in the Official Gazette, 1096 OG 30 (November 15, 1989). The Group 2811 Fax Center number

is (703) 308-7722 and 308-7724. The Group 2811 Fax Center is to be used only for papers

related to Group 2811 applications.

Any inquiry concerning this communication or any earlier communication from the

Examiner should be directed to Hung K. Vu whose telephone number is (703) 308-4079. The

Examiner is in the Office generally between the hours of 7:00 AM to 4:00 PM (Eastern Standard

Time) Monday through Friday.

Any inquiry of a general nature or relating to the status of this application should be

directed to the Technology Center Receptionists whose telephone number is 308-0956.

Tom Thomas

Page 5

Supervisory Patent Examiner Technology Center 2800

Vu

September 21, 1999